Listing of Claims:

Claims 1-10 (previously cancelled).

11. (previously added) Method for determining the position of a rotationally drivable tool, having the following steps :

- rotating a rotationally drivable tool (14),
- choosing a movement direction,
- moving the tool (14) in the chosen direction, away from the measuring beam (18), to a measuring position in which the tool (14) is separated from the measuring beam (18),
- detecting the measuring position, and
- determining the position of the tool (14) from the measuring position, wherein
- the tool (14) is positioned in the beam path of the measuring beam (18) before it is moved away from the measuring beam (18), and
- the measuring position is detected for a position of the tool (14) in which the measuring beam (18) is not interrupted during at least one revolution of the tool (14).

Claim 12. (previously added) Method according to claim 11, in which the tool (14) is positioned in the beam path of the measuring beam (18) in such a manner that the measuring beam (18) is interrupted.

Claim 13 (previously added) Method according to claim 11, in which the tool (14) is positioned in the beam path of the measuring beam (18) in such a manner that the measuring beam (18) is periodically interrupted by the rotating tool (14).

Claim 14 (previously added) Method according to claim 11, in which the tool (14) is rotated at a predetermined rotational speed.

Claim 15 (previously added) Method according to claim 11, in which the tool (14) is moved at a predetermined velocity.

Claim 16. (currently amended) ~~Method according to claim 11, in which~~ Method for determining the position of a rotationally drivable tool, having the following steps :

- rotating a rotationally drivable tool (14),
- choosing a movement direction,
- moving the tool (14) in the chosen direction, away from the measuring beam (18), to a measuring position in which the tool (14) is separated from the measuring beam (18),
- detecting the measuring position, and
- determining the position of the tool (14) from the measuring position, wherein
- the tool (14) is positioned in the beam path of the measuring beam (18) before it is moved away from the measuring beam (18), and
- the measuring position is detected for a position of the tool (14) in which the measuring beam (18) is not interrupted during at least one revolution of the tool (14), and

the tool position is determined in dependence on the rotational speed and the movement velocity of the tool (14).

Claim 17 (previously added) Method according to claim 11, in which the moving of the tool (14) away from the measuring beam (18) is ended when the measuring position is reached.

Claims 18-19 (cancelled).

Claim 20. (currently amended) Device according to claim ~~19, wherein the~~ 11 comprising an optical measuring device (10, 12) ~~has~~ with a transmitter (10) for emitting a measuring beam (18) and a receiver (12) for selectively receiving the measuring beam (18).